

ALABAMA ENGINEERING JOB APPROVAL AUTHORITY

NAME _____ TITLE _____ GRADE _____ LOCATION _____

DELEGATED BY _____ TITLE _____ DATE _____
(Responsible Engineer)

CONCURRED BY _____ TITLE _____ DATE _____
(Supervisor)

This form will be reviewed with the employee annually and revised as needed. If no significant changes are made, the following table will be used to indicate that the review has been made by the appropriate engineering personnel.

REVIEWED BY	TITLE	COMMENTS	DATE

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES						MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	VI	I&E	DSN	CST
Any Practice	---	Hazard potential as defined by Sec. 503 of NEM	Class	Low	Low	Low	Low	Low	Signifi- cant	I	I	I
Any Practice	---	Alter the visual resources of beaches and shorelines on oceans		None	None	None	None	None	All	I	I	I

DAMS AND STRUCTURES ^{1/}

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES						MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	VI	I&E	DSN	CST
Commercial Fishponds	397 ^{2/}	Box Culvert, Ar. Open	sq.ft.	None	4	8	12	All	All			
Dam	402 ^{2/}											
Grade Stabilization Structure	410 ^{2/}	Conduit (barrel)	in.	12	24	30	36	All	All			
	552 ^{2/}	Conduit (siphon)	In.	4	8	12	16	All	All			
Irrigation Pit or Regulating Reservoir	436 ^{2/}	Drainage Area	ac.	160	320	640	1320	12,800	25,600			
		Effective Height	ft.	15	20	25	30	35	50			
Irrigation Storage Reservoir	378 ^{2/}											
	350 ^{2/}	Embankment over active fault		None	None	None	None	None	None			
Pond	587 ^{2/}											
Sediment Basin		Open Channel Spillway Flow	cfs.	150	300	1000	2000	All	All			
		Pipe Conduit Capacity	cfs.	25	75	125	200	All	All			
Structure for Water Control		Storage x Effective Height	ac.ft.xft.	500	1000	2000	3000	All	All			
Fish Raceways or Tank	398	Concrete, Block, or Tank Surface Area	ac.	None	0.1	0.2	0.5	All	All			
		Earthen, Surface Area	ac.	None	0.1	0.5	2.0	All	All			
Pond Sealing or Lining - Flexible Membrane	521A	Perm. Pool Depth Area	ft. ac.	10 1/2	15 1	20 2	25 5	All All	All All			
Pond Sealing or Lining - Soil Dispersant	521B	Perm. Pool Depth Area	ft. ac.	10 2	15 4	20 8	25 10	All All	All All			
Pond Sealing or Lining - Bentonite	521C	Perm. Pool Depth Area	ft. ac.	10 2	15 4	20 8	25 10	All All	All All			

WASTE MANAGEMENT SYSTEMS

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES						MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	VI	I&E	DSN	CST
Animal Trails and Walkways	575	Surface Treatment	Kind	Earth	Earth	Earth	Gravel	All	All			
		Length	ft.	500	1000	2000	5000	All	All			
Composting Facility	317	Animal Units $\frac{3}{4}$	no.	100	250	500	1000	All	All			
Constructed Wetland	656	Animal Units $\frac{3}{4}$ Area	no. ac.	None None	60 0.3	120 0.5	600 1.0	All All	All All			
Incinerator	769	1000 Birds No. Sows	no.	60 100	120 200	250 500	500 1000	All All	All All			
Manure Transfer	634	Animal Units $\frac{3}{4}$	no.	None	120	300	600	All	All			
Closure of Waste Impoundments	360	Surface Area	ac.	None	1	2	5	All	All			
Waste Field Storage	749	Animal Units $\frac{3}{4}$	no.	None	All	All	All	All	All			
Waste Storage Facility	313	Storage Capacity	1000 cu.ft.	100	200	500	1000	2000	5000			
		Effective Height of Dam	ft.	15	20	25	30	All	All			
		Liquid or Slurry Design Cap., Animal Units $\frac{3}{4}$	no.	None	50	250	500	All	All			
		Wall Height Above Ground Below Ground	ft. ft.	None None	6 6	8 8	12 8	All All	All All			
		Tank Span Above Ground Below Ground	ft. ft.	None None	8 6	12 10	24 12	All All	All All			
		Tank, Silo Type (Preapproved)	no.	None	None	All	All	All	All			
		Dry Stack Animal Units $\frac{3}{4}$	no.	None	250	500	1000	All	All			
Waste Treatment Lagoon	359	Aerobic Surface Area	ac.	None	2	5	10	25	50			
		Anaerobic Volume	1000 cu.ft.	None	200	500	1000	2000	5000			
		Effective Height of Dam	ft.	15	20	25	30	All	All			

WATER MANAGEMENT SYSTEMS

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES						MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	VI	I&E	DSN	CST
Agricultural Fuel Containment Facility	701	Fuel	gal.	100	300	660	1320	All	All			
Agrichemical Handling Facility	702	Secondary Containment	gal.	None	None	500	1000	All	All			
		Eave Height	ft.	None	10	14	All	All	All			
Anionic Polyacrylamide (PAM) Erosion Control	450	Area Treated	ac.	1	2	5	All	All	All			
Bedding	310	System Operating as Unit	ac.	20	40	All	All	All	All			
Diversion	362	Capacity	cfs	100	150	200	250	All	All			
Filter Strip	393	Area Protected	ac.	All	All	All	All	All	All			
Grassed Waterway	412	Capacity	cfs	100	150	200	250	All	All			
Lined Waterway or Outlet	468	Design Capacity	cfs	None	50	100	200	All	All			
Portable Agrichemical Mixing Station	703	Secondary Containment	gal.	None	10	25	50	All	All			
Roof Runoff Structure	558	Capacity	cfs	10	20	50	100	All	All			
Row Arrangement	557	Area of Field	ac	40	160	320	All	All	All			
Runoff Management System	570	Design Capacity	cfs	None	None	50	100	All	All			
Subsurface Drain	606	Diameter System Length	in. 1000 ft.	6 2.5	8 5	12 10	18 20	All All	All All			
Surface Drainage Field Ditch	607	Area of System	ac.	40	80	160	320	All	All			
Surface Drainage Main and Lateral	608	Design Capacity Velocity	cfs fps	50 4	100 5	200 6	300 8	1000 10	2000 12			
Terraces	600	Area Protected	ac.	50	160	All	All	All	All			
Underground Outlet	620	Area Protected	ac.	10	20	40	80	All	All			
Water & Sediment Control Basin	638	Storage Height	ac.in. ft.	10 6	20 12	30 12	40 15	All All	All All			

WATER SUPPLY

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES						MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	VI	I&E	DSN	CST
Dry Hydrant	432	Pump Capacity	gpm	None	300	750	All	All	All			
		Water Source	Kind	River or non-fluct. lake	Pond or fluct. lake	Stream	All	All	All			
Pipeline	516	Pressure	psi	10	20	50	100	300	All			
Pumping Plant	533	Axial Flow Pump Capacity	1000 gpm	5	8	10	20	50	100			
		Centrifugal and Turbine Pump Capacity	1000 gpm	None	1	2	2.5	3.5	5			
		Centrifugal Pump Static Head	ft.	None	100	200	250	350	500			
		Turbine Pump Static Head	ft.	None	150	300	400	500	1000			
Spring Development	574	Total Flow	gpm	5	15	50	100	All	All			
Water Well	642	Diameter	in.	2	4	6	8	All	All			
Watering Facility	614	Capacity	gal.	250	500	1000	2000	All	All			
Well Decommissioning	351	Type of Well		Dug	All	All	All	All	All			
		Depth	ft.	25	100	200	All	All	All			
		Karst Topography		no	no	no	no	yes	yes			
		Flowing Artesian		no	no	no	no	yes	yes			

STREAM CHANNEL

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES						MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	VI	I&E	DSN	CST
Clearing & Snagging	326	Length of Reach	1000 ft.	1	2	5	10	All	All			
Dike	356	Hazard-Height	class-ft.	None	III-3	III-6	III-9	III-All	II-All			
Land Clearing	460	Area Treated	ac.	80	160	320	All	All	All			
Open Channel	582	Design Capacity Velocity	cfs fps	None None	150 4	300 6	500 8	1000 10	2000 12			
Spoil Spreading	572	Length of Ditch	1000 ft.	2.5	5	10	All	All	All			
Stream Channel Stabilization	584	Design Capacity Velocity	cfs fps	None None	150 4	300 6	500 8	1000 10	2000 12			
Stream Crossing	578	Bankfull Capacity	cfs	50	100	200	500	All	All			
Streambank and Shoreline Protection ^{4/}	580	Bankfull Capacity	1000 cfs	0.2	0.5	1.0	2.5	5	20			
		Bankfull Velocity	fps	2	4	6	8	10	12			
		Water Height Above Shoreline	ft.	None	None	1	2	3	5			

IRRIGATION

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES						MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	VI	I&E	DSN	CST
Field Ditch	388	Design Capacity	cfs	5	10	25	All	All	All			
Land Leveling	464	Area	ac.	None	25	40	160	All	All			
System, Sprinkler	442	Capacity	ac.	None	40	160	320	All	All			
System, Surface and Subsurface	443	Capacity	ac.	None	40	160	320	All	All			
System, Microirrigation	441	Capacity	ac.	None	10	20	40	All	All			
Water Conveyance Pipe	430	Pipeline Capacity 50 psi <50 psi	gpm	None	500	1000	2000	3500	All			
			gpm	None	750	1500	3000	5000	All			
Water Management	449	Area Served	ac.	160	320	640	All	All	All			

LAND RECLAMATION

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES						MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	VI	I&E	DSN	CST
Fire Control	451	Area	ac.	None	None	None	None	1	All			
Highwall Treatment	456	Height With Seepage	ft.	10	15	20	25	35	75			
		Height Without Seepage	ft.	10	15	25	35	50	100			
Land Smoothing	466	Area Treated	ac.	5	20	40	80	All	All			
Land Reclamation, Landslide Treatment	453	Area	ac.	None	None	0.25	0.5	1	5			
		Depth	ft.	None	None	5	8	10	20			
	543	Slope	%	None	None	15	30	50	All			
Obstruction Removal	500	No Hazard, Area Treated	ac.	5	20	40	80	All	All			
Toxic Discharge Control	455	Flow	cfs	5	10	25	50	100	1000			

RECREATION^{5/}

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES						MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	VI	I&E	DSN	CST
Access Road	560	Culvert Pipe, I.D.	ft.	2	3	4	5	All	All			
		Monolithic Concrete Opening	sq.ft.	3	8	15	20	All	All			
		Bridge Span	ft.	8	12	16	20	All	All			
		Surface Treatment	Type	Earth	Gravel	Asphalt	Ashp-Con.	All	All			
		Length	1000 ft.	2	5	10	15	All	All			
		Grade (Max.)	%	5	6	7	8	All	All			
Heavy Use Area Protection	561	Surface Treatment	Kind	Gravel	Concrete	Concrete	Asphalt	All	All			
		Area Treated	sq.yd.	1250	2500	4000	6000	All	All			
Recreation Land Grading & Shaping	566	Area Graded	ac.	4	6	8	All	All	All			
Recreation Trail and Walkway	568	Surface Trmt.	Kind	Earth	Gravel	Asphalt	All	All	All			
		Length	1000 ft.	1	10	15	20	All	All			
Recreation Facilities		Water Supply or Sewage Treatment	Daily Design Capacity (People)									
		Onsite Public		None	None	100	150	200	400			
		Offsite Public		None	None	200	300	400	800			

^{1/} Reference NEM 520.22.

^{2/} All Controlling Factors apply for these practice codes.

^{3/} Animal Unit (A.U.) equals 1000 lbs. animal live weight.

^{4/} Approval to be made by State Conservation Engineer on revetments, bulkheads, and groins for beaches and shorelines.

^{5/} Recreation Facilities apply only to the master plan.

DEFINITIONS OF MAXIMUM APPROVAL AUTHORITY COLUMNS:

Inventory and Evaluation (I&E) - Outside observation of an exploratory nature and preparation of sound alternative solutions of sufficient intensity for the cooperator to make treatment decisions. May require assistance from higher levels.

Design (DSN) - Designing and checking all aspects of the supporting data, drawings, and specifications to insure that the planned practice will meet the purpose for which it is installed. Also includes setting any specific inspection requirements.

Construction (CST) - Construction approval for all aspects of job including inspection services, check-out surveys and construction documentation.